

### III. CLAIM AMENDMENTS

1. (Currently Amended) Method (600, 800, 1000) for transmitting data on a packet data channel, where comprising:

the packet data channel is formed by sequential radio bursts in a certain time slot in a certain sequence of radio frames,

data is transmitted (801) in data blocks,

a packet data channel is used by a number of packet data connections, and

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an identifier in each data block is used (801) to indicate the connection to which the data block is related, said method further comprising the step of selecting (802, 1002) the number of radio bursts in said certain time slot in said certain sequence of radio frames, using which used to transmit a data block is transmitted, from a certain set of values, which set contains at least two values.

2. (Currently Amended) Method according to claim 1, further comprising the steps of:

coding (804) each of said data blocks before transmission,

aggregating (705) the resulting coded data blocks (501, 502, 511, 521) to at least one aggregated coded data block (500, 510, 520), each of in which aggregated coded data blocks consists of at least one part, a number of parts of the at

least one part (501, 502) being complete coded data blocks and a number of other parts of the at least one part (511, 521) being partial coded data blocks, and

transmitting each part within an aggregated coded data block by using a part-specific number of radio bursts in such a way that ~~the~~a sum of part-specific numbers within the aggregated coded data block is a certain predetermined number.

3. (Original) Method according to claim 2, wherein a number of aggregated coded data blocks contain only one part, which is a complete coded data block.

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4. (Original) Method according to claim 2, wherein an aggregated coded data block (510, 520) containing a part (511, 521), which is a partial coded data block, contains only said part.

5. (Currently Amended) Method according to claim 2, wherein the method, using in which a certain data block is coded, is selected based on the number of radio bursts selected for said data block.

6. (Currently Amended) Method according to claim 2, wherein the number of radio bursts for transmitting a data block is selected based on the method using in which said data block is coded.

7. (Currently Amended) Method according to claim 2, wherein

the number of radio bursts for transmitting a data block is selected for each packet data channel, and

all data blocks transmitted on a packet data channel are transmitted using said selected packet data channel specific number of radio bursts.

8. (Original) Method according to claim 2, wherein the number of radio bursts for transmitting a data block is selected separately for each data block.

9. (Currently Amended) Method according to claim 2, further comprising the steps of:

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constructing (806) a header (701, 711, 721, 731, 741) for each aggregated coded data block, and

transmitting (806) the header of the aggregated coded data block using the same radio bursts as the aggregated coded data block.

10. (Currently Amended) Method according to claim 2, further comprising the steps of:

constructing a header for each part within an aggregated coded data block, and

transmitting each header using the same radio bursts as the part related to it.

11. (Currently Amended) Method according to claim 2 further comprising the step of communicating (604, 806, 910, 1003) a designation an allocation of the number of radio bursts, using in which a part of the aggregated coded data block is transmitted, at least to the a mobile station related to the connection indicated in the data block in the part.

12. (Currently Amended) Method according to claim 11, wherein the designation allocation of the number of radio bursts is signaled to the mobile station using a signaling channel different from the packet data channel.

13. (Currently Amended) Method according to claim 11, further comprising the steps of:

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constructing (806) a header (711, 721, 731, 741) for an aggregated coded data block, and

transmitting (808) the header of an aggregated coded data block using the same radio bursts as the aggregated coded data block, and

wherein the designation allocation of the number of radio bursts is communicated to the mobile station together with said header.

14. (Currently Amended) Method according to claim 13, wherein the a number of downlink radio bursts (751, 752, 753, 754) used to transmit a part within an aggregated coded data block is

indicated for each part of said aggregated coded data block in said header (711, 741) of said aggregated coded data block.

15. (Currently Amended) Method according to claim 13, wherein ~~the designation~~ an allocation of a number of uplink radio bursts is communicated to the mobile station together with said header (721, 731, 741) of a downlink aggregated coded data block.

16. (Currently Amended) Method (900, 1000) according to claim 15, further comprising the steps of:

designating allocating the number of uplink radio bursts to mobile stations using ~~a~~ second identifier identifiers (412, 702) and third identifiers (761, 762, 763, 764), ~~which second and third identifiers said header of a downlink aggregated coded data block comprises,~~

reserving (904, 905) certain first values of the second identifier to ~~designate~~ allocate a predetermined number of uplink radio bursts to a certain mobile station,

reserving (904, 907) certain second values of the second identifier, which are different from the first values, to designate said predetermined number of uplink bursts to a certain group of mobile stations, and

indicating (909) the mobile station related to certain uplink radio bursts within said predetermined number of uplink radio bursts with said third identifier identifiers.

17. (Currently Amended) Method according to claim 16, wherein the number of uplink radio bursts (771, 772, 773, 774), using in which a part of an uplink aggregated coded data block is transmitted, is indicated for each part of said uplink aggregated coded data block in said header (731, 741) of a downlink aggregated coded data block.

18. (Original) Method according to claim 17, wherein the number of downlink radio bursts (751, 752, 753, 754) used to transmit apart of said downlink aggregated coded data block is indicated for each part of said downlink aggregated coded data block in said header (741) of said downlink aggregated coded data block.

19. (Currently Amended) A mobile station (1110), comprising

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means (1113, 1114) for transmitting uplink data blocks,

means (1114, 1116) for receiving downlink data blocks,

means (1115) for detecting the number of downlink radio bursts using in which a downlink data block is transmitted, and

means (1112) for selecting the number of uplink radio bursts using in which an uplink data block is transmitted.

20. (Currently Amended) Mobile station according to claim 19, wherein the means (1112) for selecting the number of uplink radio bursts are means for selecting the number of uplink radio bursts as dicated indicated by thea cellular radio system.

21. (Original) Mobile station according to claim 19, wherein the means (1112) for selecting the number of uplink radio bursts are means for selecting the number of uplink radio bursts independently.

22. (Original) Mobile station according to claim 19, said mobile station being a mobile station of the EGPRS system.

23. (Currently Amended) An arrangement (1120), comprising

means (1123, 1124) for transmitting downlink data blocks,

means (1124, 1126) for receiving uplink data blocks, and

means (1122) for selecting the number of downlink radio bursts using in which a downlink data block is transmitted.

24. (Currently Amended) An arrangement according to claim 23, further comprising means for selecting the number of uplink radio bursts using in which an uplink data block is transmitted.

25. (Currently Amended) A network element (1140), comprising

means (1122) for selecting the number of downlink radio bursts using in which a downlink data block is transmitted, and

means for selecting the number of uplink radio bursts using in which an uplink data block is transmitted.

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26. (Original) Network element according to claim 25, said network element being a packet control unit of an EGPRS system.